THAT WHICH IS CLAIMED IS:

1. A system for providing a record of the performance of an aircraft engine comprising:

an engine monitoring module mounted on the aircraft engine for collecting engine data relating to operation of the aircraft engine, said engine monitoring module further comprising a transmitter for transmitting the engine data over a wireless communications signal; and

a receiver for receiving the transmitted engine data.

- 2. A system according to claim 1, wherein said transmitter comprises a spread spectrum transmitter for transmitting the engine data over a wideband spread spectrum communications signal.
- 3. A system according to claim 1, and further comprising a conformal antenna mounted on the engine monitoring module through which the wireless communications signal is transmitted.
- 4. A system according to claim 1, and further comprising a processor operative for receiving the engine data from said receiver for further processing of the engine data.
- 5. A system according to claim 4, and further comprising an internet for transferring the engine data from the receiver to said processor.

- 6. A system according to claim 4, and further comprising a public switched telephone network for transferring the engine data from the receiver to said processor.
- 7. A system according to claim 4, and further comprising a cellular network for transferring the engine data from the receiver to said processor.
- 8. A system according to claim 4, and further comprising a transmitter operative with said receiver for transmitting said engine data from said receiver to said processor using a wireless communications signal.
- 9. A system according to claim 1, and further comprising a FADEC/ECU operative with said aircraft engine for collecting engine data, wherein said engine monitoring module is electrically connected to said FADEC/ECU for collecting engine data.
- 10. A system according to claim 1, and further comprising a data address assigned to the engine monitoring module and linking the data address to an engine serial number for tracking the aircraft engine.
- 11. A system according to claim 10, wherein said data address comprises an internet address.
- 12. A system for providing a record of the performance of an aircraft engine comprising:

an engine monitoring module mounted on the aircraft engine for collecting aircraft engine data relating to

operation of the aircraft engine, said engine monitoring module further comprising a transceiver for transmitting the engine data and receiving data for onboard processing over a wireless communications signal; and

a receiver for receiving the transmitted engine data.

- 13. A system according to claim 12, wherein said transceiver comprises a spread spectrum transceiver for transmitting the engine data or receiving data for onboard processing over a wideband spread spectrum communications signal.
- 14. A system according to claim 12, and further comprising a conformal antenna mounted on the engine monitoring module through which the wireless communications signal is transmitted and received.
- 15. A system according to claim 12, and further comprising a processor operative for receiving the engine data from said receiver for further processing of the engine data.
- 16. A system according to claim 15, and further comprising an internet for transferring the engine data from the receiver to said processor.
- 17. A system according to claim 15, and further comprising a public switched telephone network for transferring the engine data from the receiver to said processor.

- 18. A system according to claim 15, and further comprising a cellular network for transferring the engine data from the receiver to said processor.
- 19. A system according to claim 15, and further comprising a transmitter operative with said receiver for transmitting said engine data from said receiver to said processor using a wireless communications signal.
- 20. A system according to claim 12, and further comprising a FADEC/ECU operative with said aircraft engine for collecting engine data, wherein said engine monitoring module is electrically connected to said FADEC/ECU for collecting engine data therefrom.
- 21. A system according to claim 12, and further comprising a data address assigned to the engine monitoring module and linking the data address to an engine serial number for tracking the aircraft engine.
- 22. A system according to claim 21, wherein said data address comprises an internet address.
 - 23. A wireless engine monitoring system comprising: an aircraft engine; and

an engine monitoring module mounted on the aircraft engine and operative for collecting engine data relating to the performance of the aircraft engine, said engine monitoring module further comprising a transmitter for transmitting the engine data over a wireless communications signal.

- 24. A wireless engine monitoring system according to claim 23, and further comprising a FADEC/ECU operative with the aircraft engine for collecting engine data from the aircraft engine, wherein said engine monitoring module is operative with said FADEC/ECU for collecting engine data therefrom.
- 25. A wireless engine monitoring system according to claim 23, and further comprising a conformal antenna mounted on the engine monitoring module through which the wireless communications signal is transmitted.
- 26. A wireless engine monitoring system according to claim 23, wherein said engine monitoring module has an assigned data address that is linked to a serial number of the aircraft engine for tracking the engine.
- 27. A wireless engine monitoring system according to claim 26, wherein said data address comprises an internet address.
 - 28. A wireless engine monitoring system comprising: an aircraft engine; and

an engine monitoring module mounted on the aircraft engine and operative for collecting engine data relating to the performance of the aircraft engine, said engine monitoring module further comprising a transceiver for transmitting the engine data and receiving data for onboard processing over a wireless communications signal.

29. A wireless engine monitoring system according to claim 28, and further comprising a FADEC/ECU operative

with the aircraft engine for collecting engine data from the aircraft engine, wherein said engine monitoring module is operative with said FADEC/ECU for collecting engine data therefrom.

- 30. A wireless engine monitoring system according to claim 28, and further comprising a conformal antenna mounted on the engine monitoring module through which the wireless communications signal is transmitted and received.
- 31. A wireless engine monitoring system according to claim 28, wherein said engine monitoring module has an assigned data address that is linked to a serial number of the aircraft engine for tracking the engine.
- 32. A wireless engine monitoring system according to claim 31, wherein said data address comprises an internet address.
- 33. A method of providing a record of the performance of an aircraft engine comprising the steps of:

collecting aircraft engine data within an engine monitoring module mounted on the aircraft engine; and

downloading the engine data that has been collected in the engine monitoring module over a wireless communications signal to a receiver.

34. A method according to claim 33, and further comprising the step of downloading the engine data over a wideband spread spectrum communications signal.

- 35. A method according to claim 33, and further comprising the step of transmitting the wireless communications signal via a conformal antenna mounted on the engine monitoring module.
- 36. A method according to claim 33, and further comprising the step of transferring the engine data from the receiver to a processor for further processing.
- 37. A method according to claim 36, and further comprising the step of transferring the engine data using the internet.
- 38. A method according to claim 36, and further comprising the step of transferring the engine data using a public switched telephone network.
- 39. A method according to claim 36, and further comprising the step of transferring the engine data using a cellular network.
- 40. A method according to claim 36, and further comprising the step of transferring the engine data using a wireless signal.
- 41. A method according to claim 33, and further comprising the step of collecting engine data from a FADEC/ECU operative with the aircraft engine.
- 42. A method according to claim 33, and further comprising the step of assigning a data address to the

engine monitoring module and linking the data address to an engine serial number for tracking the engine.

- 43. A method according to claim 42, wherein the data address comprises an internet address.
- 44. A method of providing a record of the performance of an aircraft engine comprising the steps of:

collecting aircraft engine data within an engine monitoring module mounted on the aircraft engine; and

downloading the engine data that has been collected in the engine monitoring module over a wireless communications signal to a receiver and/or uploading data for onboard processing.

- 45. A method according to claim 44, and further comprising the step of downloading the engine data and/or uploading data for onboard processing over a wideband spread spectrum communications signal.
- 46. A method according to claim 44, and further comprising the step of transmitting and/or receiving the wireless communications signal via a conformal antenna mounted on the engine monitoring module.
- 47. A method according to claim 44, and further comprising the step of transferring the engine data from the receiver to a processor for further processing.

- 48. A method according to claim 47, and further comprising the step of transferring the engine data using the internet.
- 49. A method according to claim 47, and further comprising the step of transferring the engine data using a public switched telephone network.
- 50. A method according to claim 47, and further comprising the step of transferring the engine data using a cellular network.
- 51. A method according to claim 47, and further comprising the step of transferring the engine data using a wireless signal.
- 52. A method according to claim 44, and further comprising the step of collecting engine data from a FADEC/ECU operative with the aircraft engine.
- 53. A method according to claim 44, and further comprising the step of assigning a data address to the engine monitoring module and linking the data address to an engine serial number for tracking the engine.
- 54. A method according to claim 53, wherein the data address comprises an internet address.